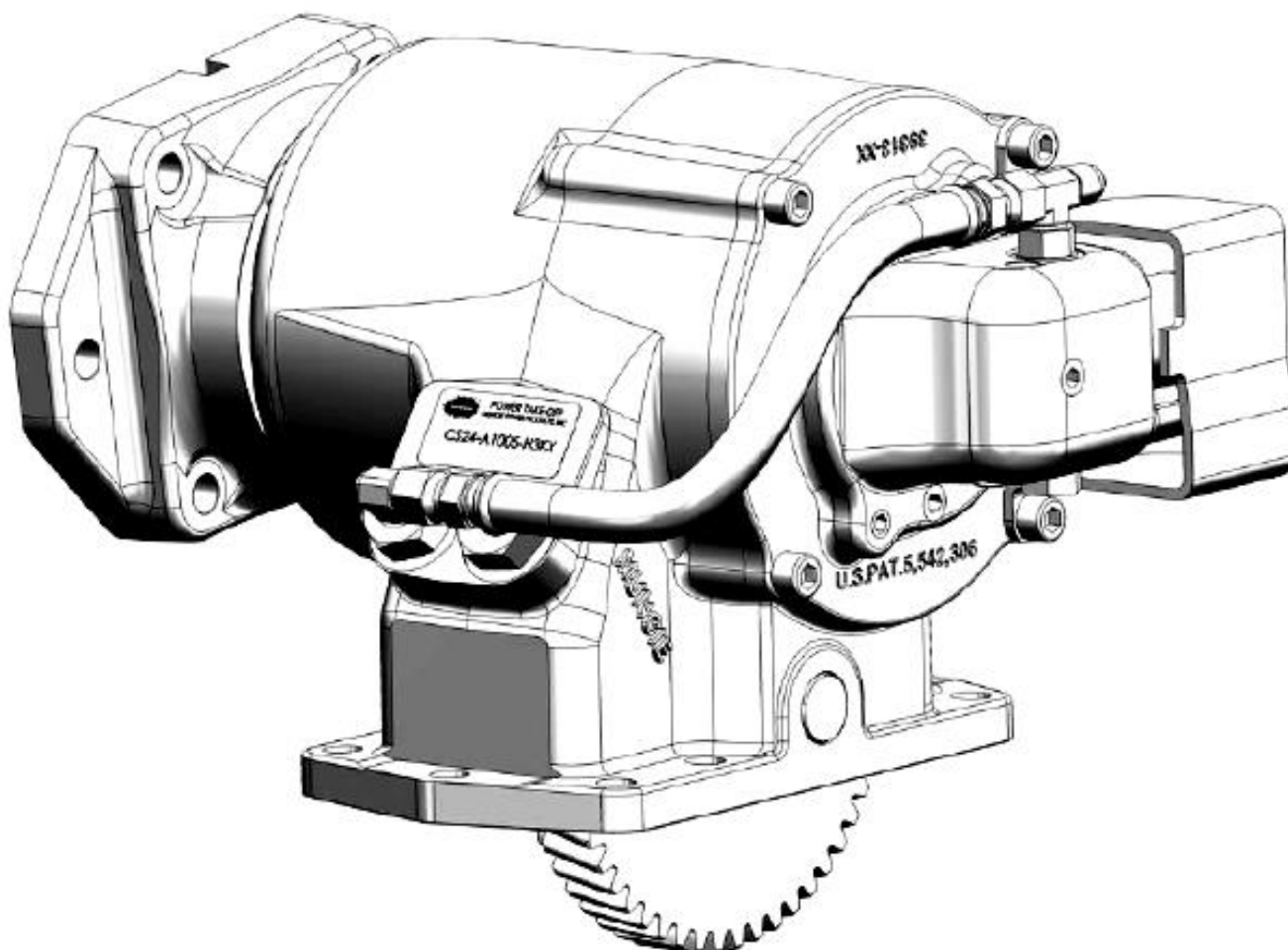


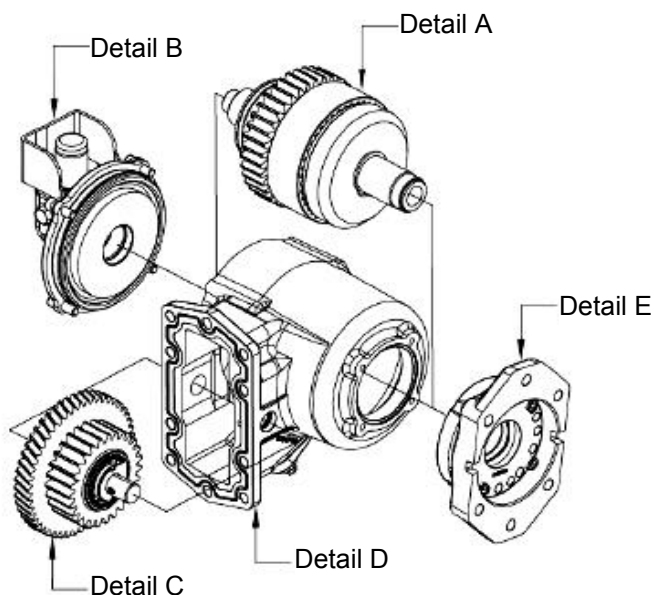
PARTS LIST AND SERVICE MANUAL



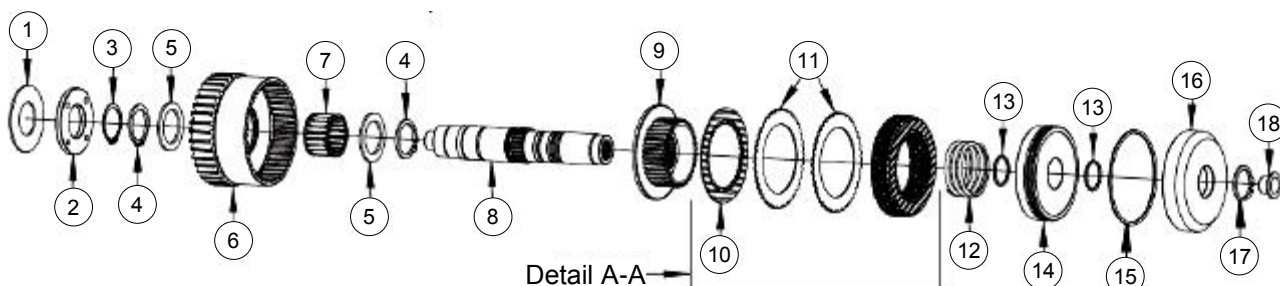
MEGA NOTE:

Several items shown in this catalogue are special order kits only. Contact MEGA Pacific sales department for further information.

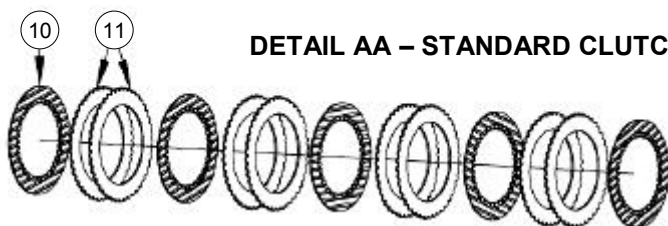
CS24/25 PTO EXPLODED VIEWS



DETAIL A – OUTPUT SHAFT ASSEMBLY
CS24/25 STANDARD OUTPUT SHAFT ASSEMBLY

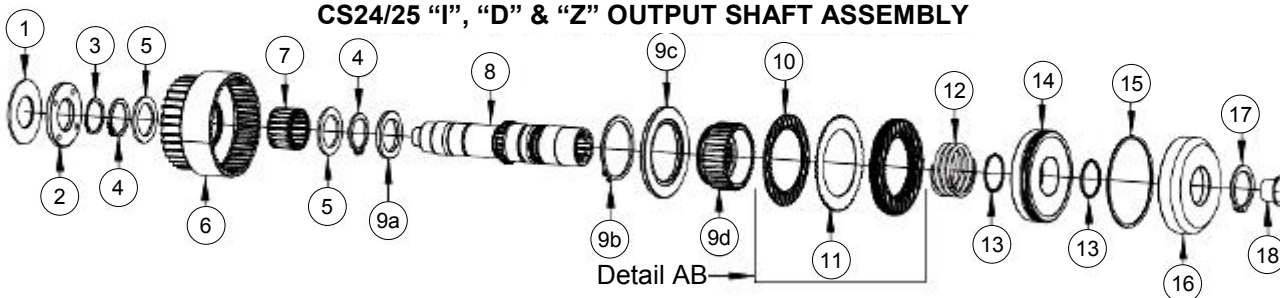


DETAIL AA – STANDARD CLUTCH PACK – DISC LOCATIONS*



* The standard clutch pack assembly contains a pair of stator plates stacked between each friction disc. The assembly should begin and end with a friction disc.

CS24/25 "I", "D" & "Z" OUTPUT SHAFT ASSEMBLY



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

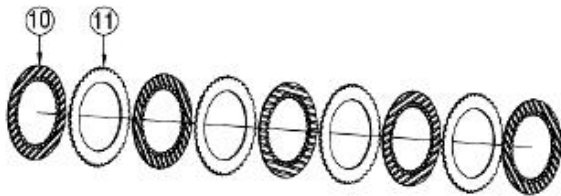
BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :
AIRMobil : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

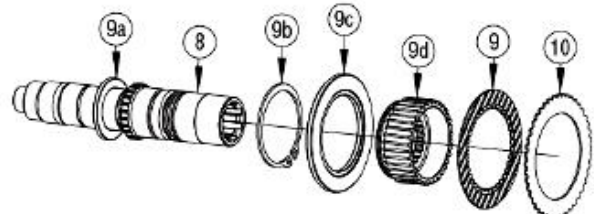
MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

CS24/25 PTO EXPLODED VIEWS

DETAIL AB - "I", "D" & "Z" CLUTCH PACK - DISC LOCATIONS**



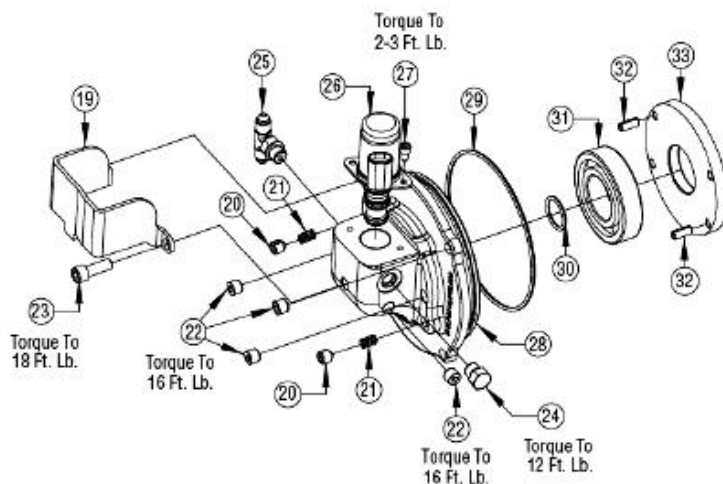
* The "I", "D", & "Z" clutch pack assembly contains a single stator plate stacked between each friction disc. The assembly should begin and end with a friction disc.



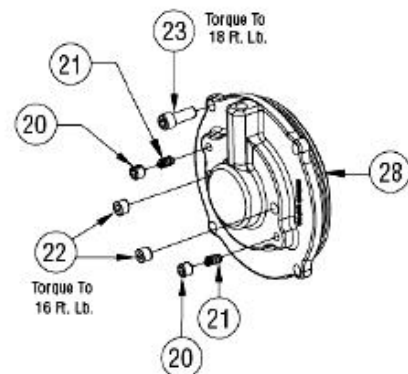
NOTE: The output shaft for the "I", "D", & "Z" output option is a larger diameter shaft and required different clutch pack components. The 4-piece clutch hub is assembled by inserting the clutch hub (9d) into the flange (9c). These items are held together with a snap ring (9b) and the spacer (9a) is placed on the output shaft (8) BEFORE installing the clutch hub assembly.

DETAIL B - END COVER ASSEMBLY

CS25 COVER ASSEMBLY DIRECT SOLENOID

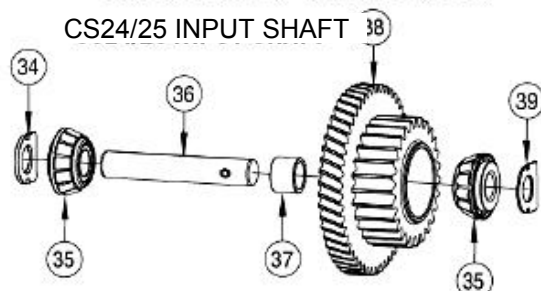


CS25 COVER ASSEMBLY REMOTE SOLENOID



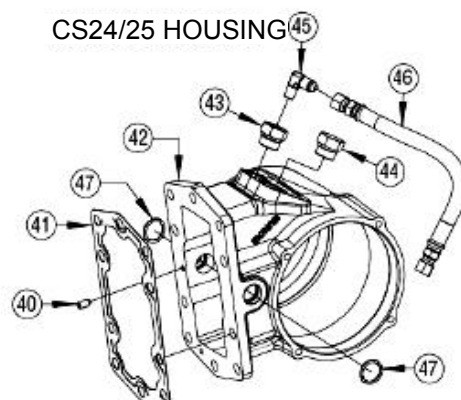
DETAIL C INPUT SHAFT ASSEMBLY

CS24/25 INPUT SHAFT



DETAIL D PTO HOUSING ASSEMBLY

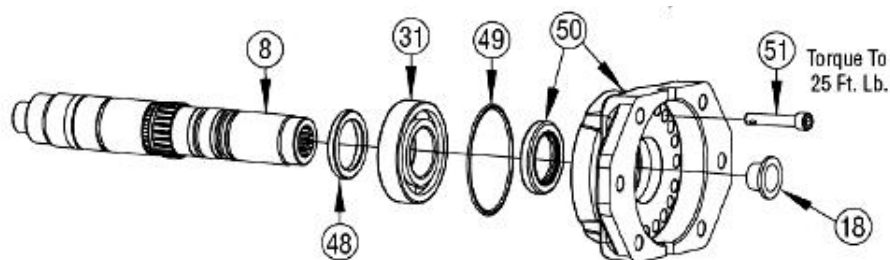
CS24/25 HOUSING



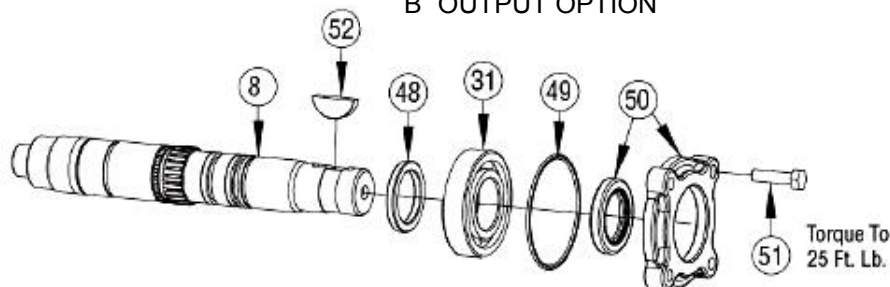
CS24/25 PTO EXPLODED VIEWS

DETAIL E – OUTPUT OPTIONS

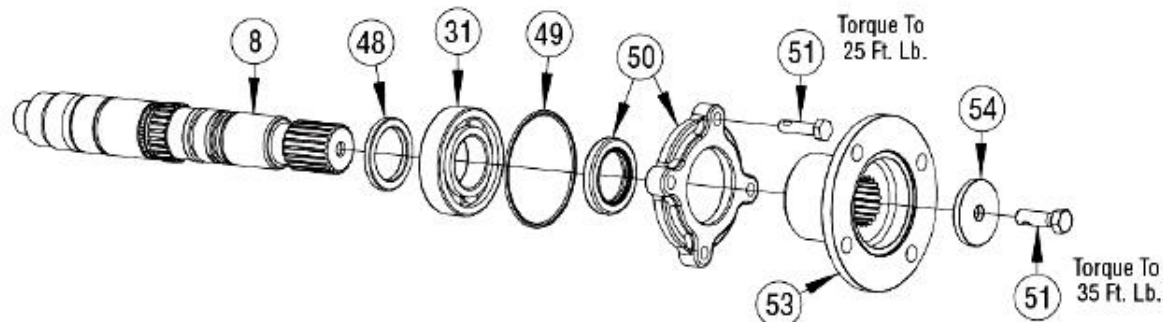
STANDARD HYDRAULIC OUTPUT- “K”, “P” & “Z” SHOWN



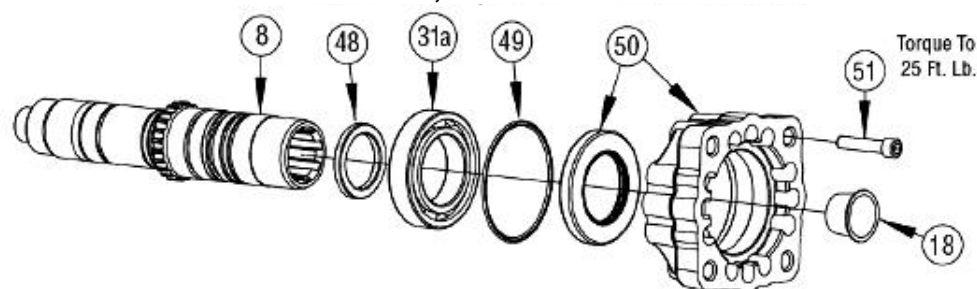
“B” OUTPUT OPTION



DETAIL E - “C” & “2” OUTPUT OPTION



DETAIL E - “I”, “D” & “Z” OUTPUT OPTION



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :

AIRMOBIL : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

PARTS LIST & DESCRIPTION

| ITEM | QTY | PART NO. | DESCRIPTION |
|------|-----|--------------|---|
| 01 | 1 | 21T36511 | Washer (CS24, CS26) |
| 02 | 1 | 21T36512 | Plate (CS24, CS26) |
| 03 | 1 | 24T27240 | Snap Ring |
| 04 | 2 | 24T35480 | Snap Ring |
| 05 | 2 | 21T29017 | Thrust Washer |
| 06 | 1 | See Table A* | Bell Gear |
| 07 | 1 | 10T36285 | Needle Roller Bearing |
| 08 | 1 | See Table B* | Output Shaft |
| 09 | 1 | 02T38792 | Clutch Hub |
| 09a | 1 | 21T38907 | Washer ("I", "D" & "Z") |
| 09b | 1 | 24T37951 | Snap Ring ("I", "D" & "Z") |
| 09c | 1 | 49T38818 | Flange ("I", "D" & "Z") |
| 09d | 1 | 49T38819 | Clutch Hub ("I", "D" & "Z") |
| 10 | 5 | 49T33564 | Friction Disc |
| | 5 | 49T38231 | Friction Disc (CS26 Only) |
| 11 | 8 | 49T40641 | Spacer Disc |
| | 8 | 49T38230 | Spacer Disc (CS26 Only) |
| | 4 | 49T40641 | Spacer Disc ("I", "D" & "Z") |
| 12 | 1 | 27T36112 | Spring |
| 13 | 2 | 12T36471 | O-Ring |
| | 2 | 12T36053 | O-Ring ("I", "D" & "Z") |
| 14 | 1 | 49T36463 | Piston |
| | 1 | 49T38552 | Piston ("I", "D" & "Z") |
| 15 | 1 | 12T36472 | O-Ring |
| 16 | 1 | 49T36464 | Piston Cup |
| | 1 | 49T38553 | Piston Cup ("I", "D" & "Z") |
| 17 | 1 | 24T36470 | Snap Ring |
| | 1 | 24T36040 | Snap Ring ("I", "D" & "Z") |
| 18 | 1 | 25T35724 | Cap Plug ("G", "K", "Q" & "S") |
| | 1 | 25T35725 | Cap Plug ("P") |
| | 1 | 25T37769 | Cap Plug ("I" & "D") |
| | 1 | 25T35936 | Cap Plug ("Z") |
| | 1 | 25T37387 | Cap Plug ("T") |
| 19 | 1 | 49T39511 | Protector |
| 20 | 2 | 19T36174 | Setcrew |
| 21 | 2 | 27T36173 | Spring |
| 22 | 4 | 25T21684 | Pipe Plug |
| 23 | 4 | 19T36588 | Capscrew |
| 24 | 1 | 25T41463 | Plug |
| 25 | 1 | 43T36231 | Tea |
| 26 | 1 | 35T40860 | Solenoid 12V |
| | 1 | 35T40864 | Solenoid 24V |
| 27 | 2 | 19T40859 | 5mm Capscrew |
| 28 | 1 | 15T40862 | Bearing Cover, Closed (CS24) (w/ Drop in Solenoid) |
| | 1 | 15T40478 | Bearing Cover, Closed (CS25) (w/o Drop in Solenoid) |
| 29 | 1 | 12T36197 | O-Ring |
| 30 | 1 | 12T36081 | O-Ring |
| 31 | 2 | 10T21017 | Bearing |
| | 1 | 10T21017 | Bearing ("I", "D" & "Z") |
| 31a | 1 | 10T38248 | Bearing ("I", "D" & "Z") |
| 32 | 2 | 26T36175 | Roll Pin (CS24, CS26) |
| 33 | 1 | 21T36473 | Plate (CS24, CS26) |
| 34 | 1 | See Table C* | Bearing Shim |
| 35 | 2 | 10T35776 | Tapered Roller Bearing |
| 36 | 1 | 07T35780 | Idler Shaft |
| 37 | 1 | See Table D* | Cone Spacer |
| 38 | 1 | See Table E* | Input Gear |
| 39 | 1 | 18T41452 | Bearing Shim (.0620" / .0600") |
| 40 | 1 | 19T35785 | Set Screw |

| ITEM | QTY | PART NO. | DESCRIPTION |
|------|-----|--------------|---|
| 41 | 1 | 13T35777 | Gasket |
| 42 | 1 | See Table F* | PTO Housing |
| 43 | 1 | 25T35784 | Orifice |
| 44 | 1 | 25T35999 | Plug |
| 45 | 1 | 43T35867 | Elbow |
| 46 | 1 | 45T36308 | Hose |
| 47 | 2 | 12T35774 | O-Ring |
| 48 | 1 | 28T36546 | Spacer ("G", "K", "P", "Q", "S", "T" & "6") |
| | 1 | 28T39404 | Spacer ("I") |
| 49 | 1 | 12T36751 | O-Ring |
| | 1 | 12T38344 | O-Ring ("I", "D" & "Z") |
| 50 | 1 | See Table G* | Flange/Seal Assembly |
| 51 | 4 | 19T34717 | Capscrew ("B", "C" & "Z") |
| | 4 | 19T34462 | Socket Capscrew ("K" & "P" Hyd.) |
| | 4 | 19T39257 | Socket Capscrew ("G", "Q" & "S" Hyd.) |
| | 4 | 19M84478 | Socket Capscrew ("I" & "D") |
| | 4 | 19T38249 | Socket Capscrew ("Z") |
| | 1 | 19T38266 | Capscrew ("C", "X" & "Z") |
| 52 | 1 | 26T01627 | Woodruff Key |
| 53 | 1 | 14T37378 | "2" Companion Flange |
| | 1 | 14T37357 | "C" Companion Flange |
| 54 | 1 | 21T20092 | Flat Washer ("C", "X" & "Z") |
| N.S. | 1 | 48TK5028 | Installation Kit (12V) Includes: Shift Kit, Gasket Pack, Stud Kit & Std. Hose Kit |
| N.S. | 1 | 48TK5038 | Installation Kit (24V) Includes: Shift Kit, Gasket Pack, Stud Kit & Std. Hose Kit |
| N.S. | 1 | 48TK5234 | Installation Kit (12V) Includes: Shift Kit, Gasket Pack, Stud Kit & Special Hose Kit (17") |
| N.S. | 1 | 48TK4708 | Installation Kit (12/24V) "P" Option Includes: Shift Kit, Gasket Pack, Stud Kit, Std. Hose Kit, Pressure Switch & Pressure Switch Fittings |
| N.S. | 1 | CS24-GSK | Gasket Kit Includes: (2)13, (1)15, (1)29, (1)30, (1)40, (2)46, (1)48, (1)11T37790 & (1)12TK3902 |
| N.S. | 1 | CS24-GSK-IZ | Gasket Kit Includes: (2)13, (1)15, (1)29, (1)30, (1)40, (2)46, (1)48, (1)11T37795 & (1)12TK3902 |
| N.S. | 1 | CS24-RBK | Rebuild Kit Includes: (1)1, (1)3, (2)5, (5)10, (8)11, (1)12, (2)13, (1)15, (1)17, (2)21, (1)29, (1)30, (2)31, (1)34, (2)35, (1)40, (2)46, (1)48, (1)11T37790 & (1)12TK3902 |
| N.S. | 1 | CS24-RBK-IZ | Rebuild Kit Includes: (1)1, (1)3, (2)4, (2)5, (5)10, (8)11, (1)12, (2)13, (1)15, (1)17, (2)21, (1)29, (1)30, (1)31, (1)31a, (1)34, (2)35, (1)40, (2)46, (1)48, (1)11T37795 & (1)12TK3902 |
| N.S. | 1 | CS26-RBK | Rebuild Kit Includes: (1)1, (1)3, (2)4, (2)5, (5)10, (8)11, (1)12, (2)13, (1)15, (1)17, (2)21, (1)29, (1)30, (2)31, (1)34, (2)35, (1)40, (2)46, (1)48, (1)11T37790 & (1)12TK3902 |
| N.S. | 1 | 48TK4054 | Conversion Kit to CS25 12V |
| N.S. | 1 | 48TK4055 | Conversion Kit to CS25 24V |

TABLES A, B, C, D, E, F & G

Table A – Bell Gear (Item 6)

| PART NO | DESCRIPTION |
|----------|---------------------|
| 02T39319 | Bell Gear 05 (38 T) |
| 02T36466 | Bell Gear 06 (36 T) |
| 02T36467 | Bell Gear 07 (34 T) |
| 02T36468 | Bell Gear 08 (32 T) |
| 02T36469 | Bell Gear 10 (30 T) |
| 02T36542 | Bell Gear 12 (27 T) |
| 02T38832 | Bell Gear 15 (24 T) |

Table B – Output Shaft (Item 8)

| PART NO | DESCRIPTION |
|----------|--------------------------------------|
| 06T36452 | Output Shaft "B" 1.3" Rd. |
| 06T37373 | Output Shaft "C" or "2" |
| 06T39405 | Output Shaft "D" Euro |
| 06T36549 | Output Shaft "G" DANA SPECIAL |
| 06T40728 | Output Shaft "I" |
| 06T36547 | Output Shaft "K" 7/8 – 13 SPL, & "6" |
| 06T36550 | Output Shaft "P" 1" – 15 SPL |
| 06T36548 | Output Shaft "Q" & "S" 7/8 – 13 SPL |
| 06T37337 | Output Shaft "T" |

Table C – Input Bearing Shim (Item 34)

| PART NO | DESCRIPTION | DIMENSION |
|----------|--------------|-----------------|
| 18T41437 | Bearing Shim | (.1150"/.1130") |
| 18T41438 | Bearing Shim | (.1175"/.1155") |
| 18T41439 | Bearing Shim | (.1200"/.1180") |
| 18T41440 | Bearing Shim | (.1225"/.1205") |
| 18T41441 | Bearing Shim | (.1250"/.1230") |
| 18T41442 | Bearing Shim | (.1275"/.1255") |
| 18T41443 | Bearing Shim | (.1300"/.1280") |
| 18T41444 | Bearing Shim | (.1325"/.1305") |
| 18T41445 | Bearing Shim | (.1350"/.1330") |
| 18T41446 | Bearing Shim | (.1375"/.1355") |
| 18T41447 | Bearing Shim | (.1400"/.1380") |
| 18T41448 | Bearing Shim | (.1425"/.1405") |
| 18T41449 | Bearing Shim | (.1450"/.1430") |
| 18T41450 | Bearing Shim | (.1475"/.1455") |
| 18T41451 | Bearing Shim | (.1500"/.1480") |

Table E – Input Gear (Item 38)

| ASSY NO | DESCRIPTION | BASE GEAR |
|----------|----------------------------|-----------|
| 03TA4624 | A1005 Input Gear (50T/21T) | 03T35752 |
| 03TA4625 | A1006 Input Gear (50T/23T) | 03T35919 |
| 03TA4626 | A1007 Input Gear (50T/25T) | 03T35755 |
| 03TA4627 | A1008 Input Gear (50T/27T) | 03T35758 |
| 03TA4628 | A1010 Input Gear (50T/29T) | 03T35761 |
| 03TA4629 | A1012 Input Gear (50T/32T) | 03T36545 |
| 03TA4630 | A1015 Input Gear (50T/35T) | 03T38830 |
| 03TA4624 | C9505 Input Gear (45T/21T) | 03T40237 |
| 03TA4624 | C9506 Input Gear (45T/23T) | 03T40217 |
| 03TA4624 | C9507 Input Gear (45T/25T) | 03T40218 |
| 03TA4624 | C9508 Input Gear (45T/27T) | 03T40219 |
| 03TA4624 | C9510 Input Gear (45T/29T) | 03T40220 |
| 03TA4624 | C9512 Input Gear (45T/32T) | 03T40221 |
| 03TA4624 | C9515 Input Gear (45T/35T) | 03T40222 |

Table D – Cone Spacer (Item 37)

| PART NO | DESCRIPTION | DIMENSION |
|----------|-------------|-----------------|
| 18T38748 | Cone Spacer | (0.743"/0.741") |
| 18T38532 | Cone Spacer | (0.740"/0.738") |
| 18T38533 | Cone Spacer | (0.737"/0.735") |
| 18T38534 | Cone Spacer | (0.734"/0.732") |
| 18T38535 | Cone Spacer | (0.731"/0.729") |
| 18T38536 | Cone Spacer | (0.728"/0.726") |
| 18T38537 | Cone Spacer | (0.725"/0.723") |
| 18T38538 | Cone Spacer | (0.722"/0.720") |
| 18T38539 | Cone Spacer | (0.719"/0.717") |
| 18T38540 | Cone Spacer | (0.716"/0.714") |
| 18T38590 | Cone Spacer | (0.713"/0.711") |
| 18T38591 | Cone Spacer | (0.710"/0.708") |
| 18T38592 | Cone Spacer | (0.707"/0.704") |

Table F – PTO Housing (Item 42)

| PART NO | DESCRIPTION |
|----------|--|
| 01T41453 | Housing (Std 1 Arrangement) |
| 01T41454 | Housing (Std 3 Arrangement) |
| 01T41509 | Housing (Std 1 Arrangement) ("I", "D" & "Z") |
| 01T41510 | Housing (Std 3 Arrangement) ("I", "D" & "Z") |
| 01T41511 | Housing (Std 1 Arrangement) (C95 Cat) |
| 01T41512 | Housing (Std 3 Arrangement) (C95 Cat) |

The cone spacer installs between the tapered input bearings to set the bearing preload at .002" - .006" loose. Critical dimension. See page 3/10 for visual detail. Purchase input gear assembly (item 38 – 03TAXXXX) which includes the correct cone spacer.

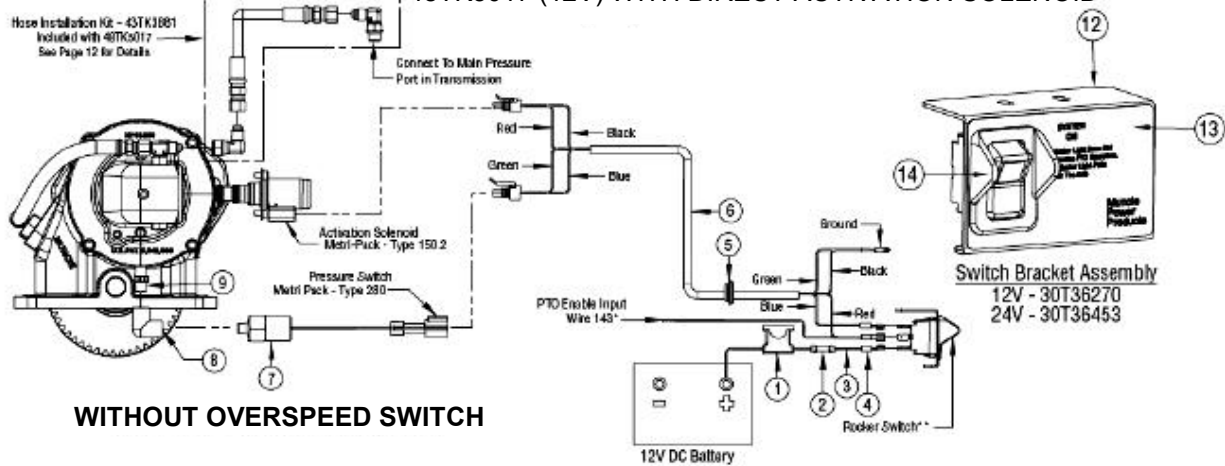
Table G – Output Cover/Flange (Item 50)

| PART NO | DESCRIPTION | COMPONENTS |
|----------|----------------------------------|--|
| 15TA5220 | "B", "C" & "2" Flange/Seal Assy. | Includes: 15T41683 Bearing Cap & 11T37790 Output Shaft Seal |
| 14TA4817 | "D" & "I" Flange/Seal Assembly | Includes: 14T39406 Hydraulic Flange & 11T37795 Output Shaft Seal |
| 14TA3998 | "G" Flange/Seal Assembly | Includes: 14T39137 Hydraulic Flange & 11T37790 Output Shaft Seal |
| 14TA3996 | "K" & "P" Flange/Seal Assembly | Includes: 14T37779 Hydraulic Flange & 11T37790 Output Shaft Seal |
| 14TA3997 | "Q" & "T" Flange/Seal Assembly | Includes: 14T39141 Hydraulic Flange & 11T37790 Output Shaft Seal |
| 14TA3999 | "S" Flange/Seal Assembly | Includes: 14T35464 Hydraulic Flange & 11T37790 Output Shaft Seal |
| 14TA4818 | "Z" Flange/Seal Assembly | Includes: 14T38343 Hydraulic Flange & 11T37795 Output Shaft Seal |
| 14TA4819 | "6" Flange/Seal Assembly | Includes: 14T38981 Hydraulic Flange & 11T37790 Output Shaft Seal |

INSTALLATION KITS

CS24 INSTALLATION KIT

48TK5017 (12V) WITH DIRECT ACTIVATION SOLENOID



*Allison TCM (Pin 43) — Clutchshift PTO's require a connection to the Allison "PTO Enable Input" circuits. Check the vehicle dealer or body builder's information for this location.)

**Green light in the rocker switch is to turn "ON" when the PTO is engaged and turn "OFF" when the PTO is disengaged.

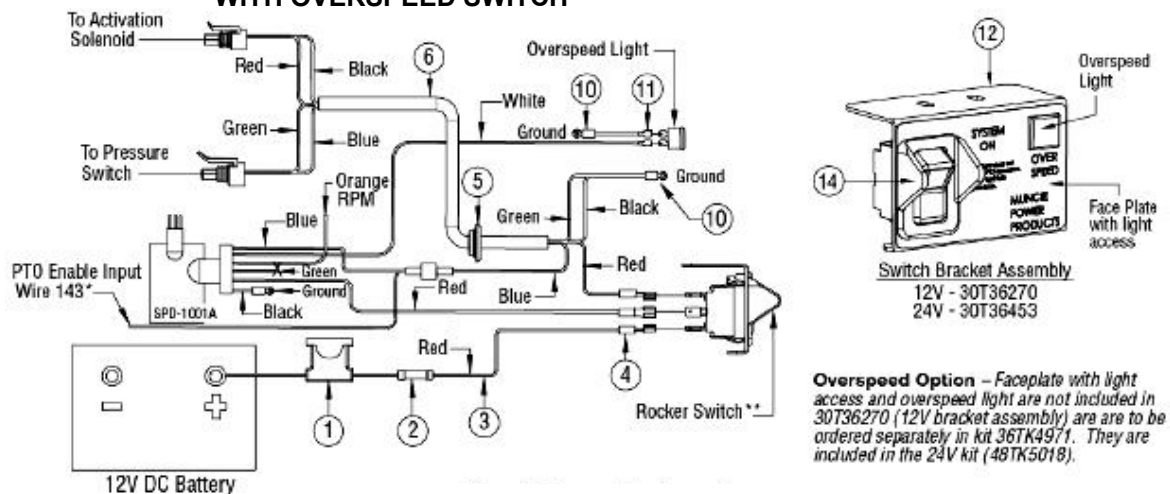
For 24V Option (48TK5018)

Include items 12 & 13 and substitute item 14 with the 24V rocker switch (30T35712). This kit also comes with the 24V light assembly (32MSR24V) and the faceplate with light access (36M01006).

INSTALLATION KIT – 48TK5017 (12V)

| ITEM | QTY | PART NO | DESCRIPTION |
|------|------|----------|-----------------------------------|
| 1 | 1 | 33T36299 | Fuse Assembly |
| 2 | 1 | 34M18002 | Butt Splice |
| 3 | 6ft. | 37M18000 | Wire |
| 4 | 1 | 34M18250 | Female Spade Connector |
| 5 | 1 | 37T35674 | Grommet |
| 6 | 1 | 34T40902 | Wire Harness |
| 7 | 1 | 30T37954 | Pressure Switch |
| 8 | 1 | 43T37959 | Pipe Elbow |
| 9 | 1 | 43T37958 | Pipe Nipple |
| 10 | 2 | 34M18009 | Ring Terminal |
| 11 | 3 | 34M18187 | Female Spade Connector |
| 12 | 1 | 36MA1005 | Switch Bracket |
| 13 | 1 | 36T36271 | Face Plate (without Light Access) |
| 14 | 1 | 30T35687 | Rocker Switch (12V) |
| N.S. | 1 | 36MK1007 | Bolt Kit |

WITH OVERSPEED SWITCH



Overspeed Option – Faceplate with light access and overspeed light are not included in 30T36270 (12V bracket assembly) are to be ordered separately in kit 36TK4971. They are included in the 24V kit (48TK5018).

MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :
AIRMOBIL : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

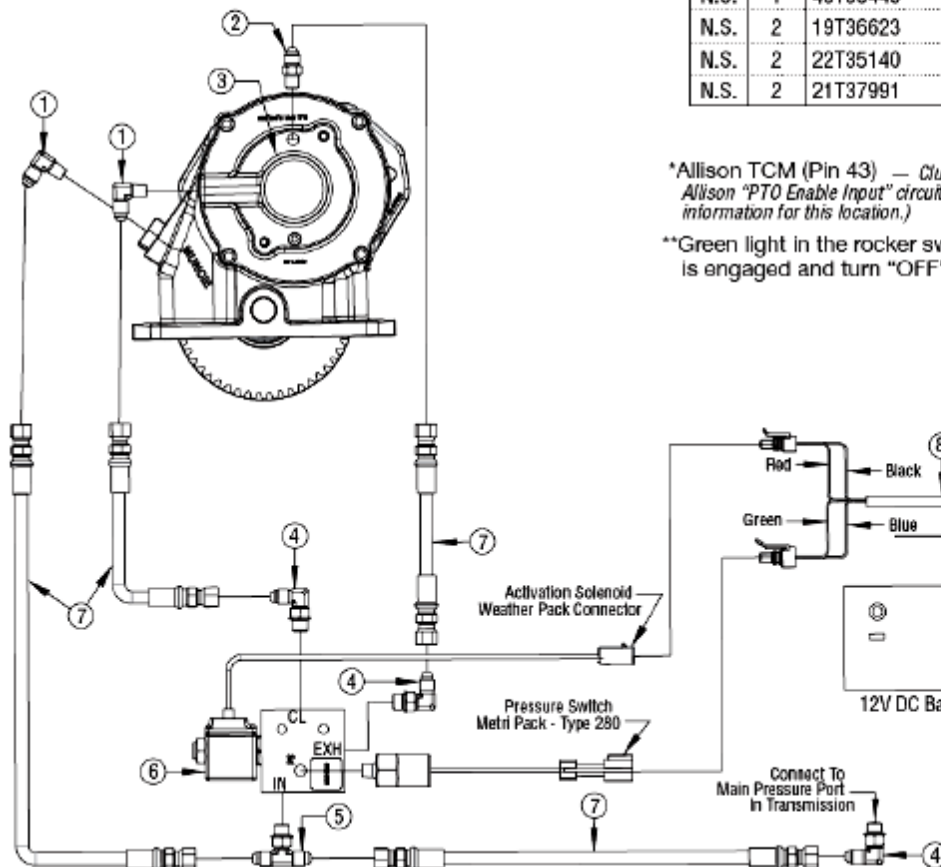
MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

INSTALLATION KITS

CS25 CONVERSION KIT

48TK5076 (12V) With Remote Activation Solenoid. Use With installation Kit 48TK5017 (Page 7). Hose Kit 43TK4036 included with conversion kit (see page 11).

WITHOUT OVERSPEED SWITCH SHOWN



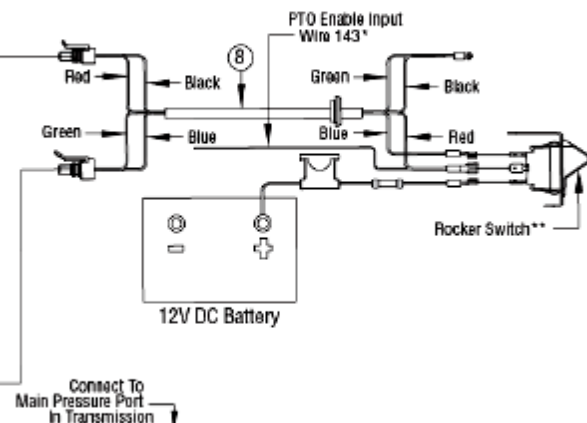
Refer to Page 7 to Install the CS25 Conversion Kit with an Overspeed Switch.

INSTALLATION KIT – 48TK5076

| ITEM | QTY | PART NO | DESCRIPTION |
|------|-----|----------|----------------------------------|
| 1 | 2 | 43T35867 | 1/8" NPT/JIC Elbow |
| 2 | 1 | 43T37503 | 1/8" NPT/JIC Fitting |
| 3 | 1 | 15TA5075 | Cover Assembly |
| 4 | 3 | 43M68014 | 7/16" - 20 Straight Thread Elbow |
| 5 | 1 | 43T36231 | Straight Branch Tree |
| 6 | 1 | 35T37928 | Valve 12VDC |
| 7 | 4 | 45T36274 | Hose Assembly |
| 8 | 1 | 34T35872 | Wire Harness |
| N.S. | 1 | 43T36445 | Elbow (Use as needed) |
| N.S. | 2 | 19T36623 | Capscrew |
| N.S. | 2 | 22T35140 | Nut |
| N.S. | 2 | 21T37991 | Lock Washer |

*Allison TCM (Pin 43) — Clutchshift PTO's require a connection to the Allison "PTO Enable Input" circuits. Check the vehicle dealer or body builder's information for this location.)

**Green light in the rocker switch is to turn "ON" when the PTO is engaged and turn "OFF" when the PTO is disengaged.



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :
AIRMobil : VIME : EU COMP : AMI : SISTEMATICA

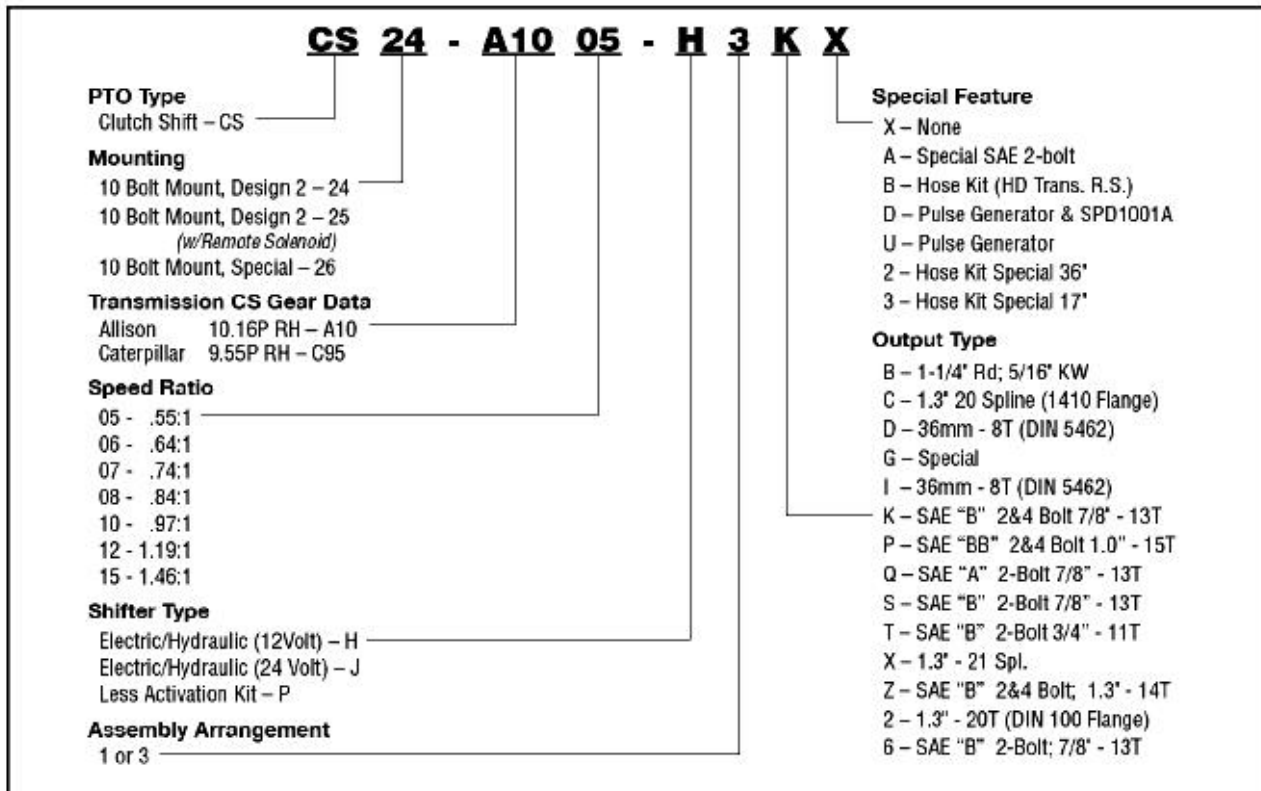
MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

T+ R—aM5

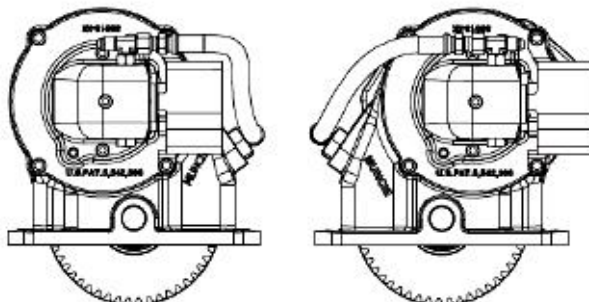
MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

Rev 1, 170615

MODEL NUMBER CONSTRUCTION

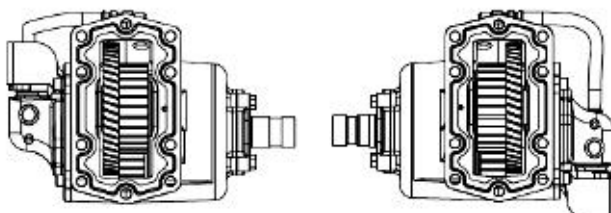


CS24 ARRANGEMENT



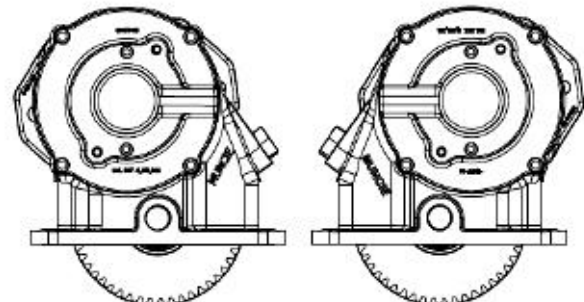
1 Assembly*

3 Assembly



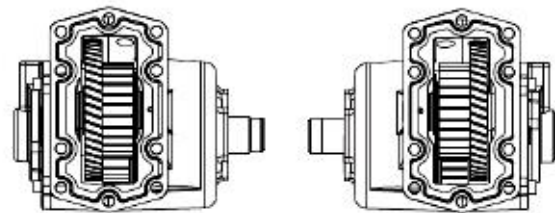
*The CS24 hose arrangement (Items 42, 43 & 44) should be centered over the ratio gear as shown.

CS25 ARRANGEMENT



1 Assembly

3 Assembly



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :
AIRMOBIL : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

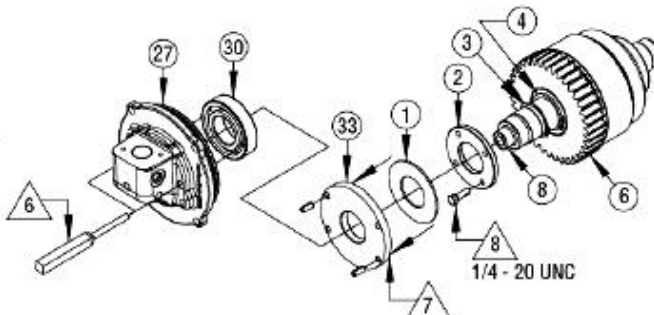
MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

CS24 DISASSEMBLY AND REASSEMBLY

(REFERENCE EXPLODED VIEWS ON PAGES 2, 3 & 4)

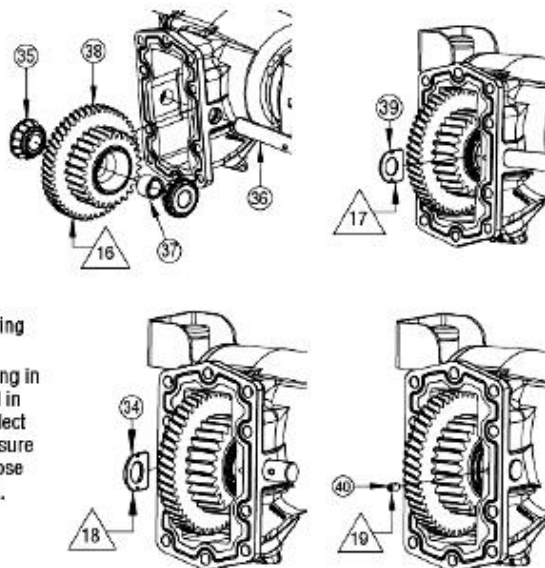
DISASSEMBLY PROCEDURE

1. Remove the CS24 input gear (38) by removing the set screw (40) in the mounting pad and driving the idler shaft (35) from the housing (42).
2. Remove the set screws (20) from the bearing cover (28) which hold the drag brake springs (21). Position the housing so the springs can fall from the housing.
3. Remove the four large socket capscrews (23) from the bearing cover (28).
4. Position the housing against a bench block and hit the end of the output shaft (8) with a soft face hammer to remove the entire output shaft assembly with the bearing cover (28).
5. Remove the two pipe plugs (22) from the bearing cover (28) to expose the ball bearing assembly within the cover.
6. Using a 1/4" punch and alternating between the two holes drive the bearing and output shaft assembly from the bearing cover (28).
7. Using a bearing puller, remove the rear bearing (31) by grabbing the drag brake plate (33) and removing both pieces. The bronze disk (1) can be removed.
8. Insert four 1/4 - 20 capscrews into the drag brake rotor (2) until they just touch the back of the bell gear. Using an "X" pattern screw the capscrews in at 1/4 turn intervals until the brake rotor is free of the output shaft (8).
9. The piston and clutch pack may be serviced without removal of the drag brake. Using snap ring pliers, remove the snap ring (17) located on the output shaft end while gently pushing on the piston cup (16).
10. Pull the piston cup (16) from the shaft and the piston (14) will go with it.
11. Tap the piston cup on a wood surface to remove the piston.
12. Remove the spring (12). The clutch friction discs (10), spacer discs (11) and clutch hub (9) can be removed by pointing the shaft end down.
13. With the drag brake removed, the snap rings (3 & 4) on this end of the bell gear can be removed with snap ring pliers. This allows the bell gear (6) to be removed towards the closed end. The internal bearing (7) of the bell gear can be removed.



REASSEMBLY PROCEDURE

14. The reassembly of the unit is made in reverse of the disassembly. The re-use of seals, o-rings and snap rings are not recommended. See page (5) for gasket and rebuild kits.
15. Be sure to lubricate all o-rings and bearings upon installation. Torque all the capscrews to the appropriate values or to the following values: 5/16" Capscrews - 18 Ft. Lb.; 3/8" Capscrews - 36 Ft. Lb.; 1/4" Set Screw 9 Ft. Lb.
16. The input gear (38) is replaced as a set which includes the Base gear (36), cone spacer (37) and bearings (35). Slide this sub assembly into the housing to line up the idler shaft (36).
17. Insert the shim (39) between the bearing and the housing with the curved end towards the mounting pad (on the set screw side of the mounting pad). Tap the idler shaft into the housing and through the bearing races.
18. Tap the idler shaft in the reverse direction so that it is flush with the bearing in this assembly. Insert the thickest shim (34) that can be installed by hand in the gap between the bearing and housing. Remove the shim (34) and select the next thickest shim and drive into the gap. Rotating the gear to make sure it easily rotates. The recommended bearing pre-load is .002" to .006" loose (the cone spacer sets this pre-load and the measurement is not required).
19. Tap the idler shaft (36) into position and install the set screw (40).

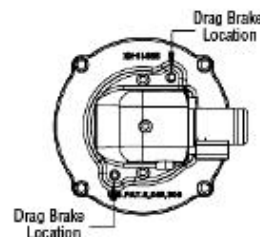


DROP-IN SOLENOID VALVE INSTALLATION

20. Valve is pushed into the housing cavity.
21. Use two 5mm capscrews (27) to mount the solenoid. Torque the capscrews to 2-3 Ft. Lb.

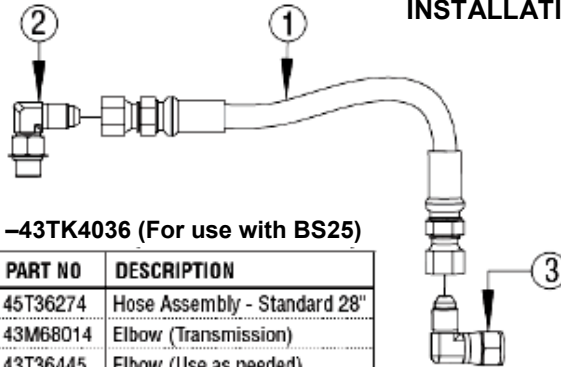
DRAW BRAKE ADJUSTMENT

22. When installing the rear cover, be sure to align the roll pins in the drag brake plate with holes in the rear cover.
23. After the cover has been attached to the housing, insert the springs (21) into the holes.
24. Insert the set screw (40) over the spring and turn the screw seven (7) full turns.
25. Follow the test and adjustment procedures in the CS24 owner's manual.



ACCESSORY KITS

INSTALLATION HOSE KITS



HOSE KIT -43TK4036 (For use with BS25)

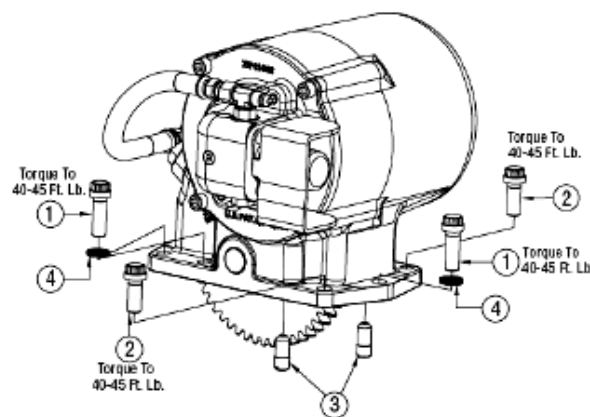
| ITEM | QTY | PART NO | DESCRIPTION |
|------|-----|----------|------------------------------|
| 1 | 4 | 45T36274 | Hose Assembly - Standard 28" |
| 2 | 3 | 43M68014 | Elbow (Transmission) |
| 3 | 1 | 43T36445 | Elbow (Use as needed) |
| N.S. | 2 | 43T35867 | Elbow |
| N.S. | 1 | 43T36231 | Tee Fitting |

HOSE KITS

43TK3881-Standard 28"; 43TK3885-Top R.S. 4000 Series 57"(Optional); 43TK4545-Special 17" (optional); 43TK5163-Top R.S. 3000 Series 36" (optional)

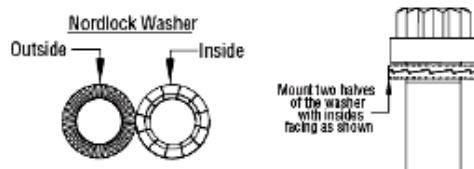
| ITEM | QTY | PART NO | DESCRIPTION |
|------|-----|----------|---|
| 1 | 1 | 45T36274 | Hose Assembly - Standard 28" |
| | | 45T36273 | Hose Assembly - HD Top 57" |
| | | 45T39186 | Hose Assembly - Special 17" |
| | | 45T38840 | Hose Assembly - HD Top 36" |
| 2 | 1 | 43M68014 | Elbow (Transmission) |
| 3 | 1 | 43T36445 | Elbow -Use as needed (43TK3881 & 43TK4545 only) |

BOLT KIT



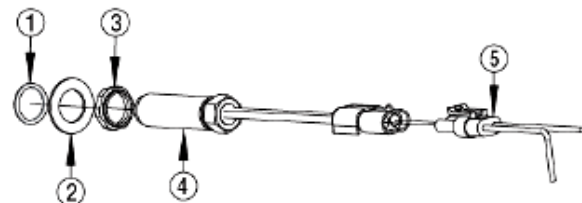
CS24/25 BOLT KIT -20MK1001

| ITEM | QTY | PART NO | DESCRIPTION |
|------|-----|----------|------------------------|
| 1 | 6 | 19T40266 | 12 Pt. Capscrew - 30mm |
| 2 | 2 | 19T37727 | 12 Pt. Capscrew - 25mm |
| 3 | 2 | 20T35779 | Alignment Stud |
| 4 | 2 | 21T40360 | Nordlock Washer |



IMPORTANT: The CS24 includes the mounting kit, special shim/gasket, high pressure hose hookup kit, wiring harness, dash bracket kit and the installation instructions. The PTO is available with a pulse generator (pick-up) for use with the Muncie Digital Tachometer - 38MK2000 (request MP92-04) or use with the Muncie digital switch SPD-1001A to control the engagement or overspeed protection of the PTO. Contact your Muncie Application Specialist for assistance with these options.

SPEED SENSOR KIT -OPTION "U"



SPEED SENSOR KIT -31TK3873

| ITEM | QTY | PART NO | DESCRIPTION |
|------|-----|----------|----------------|
| 1 | 1 | 21T41900 | Seal Washer |
| 2 | 1 | 21T35603 | Flat Washer |
| 3 | 1 | 21T35109 | Jam Nut |
| 4 | 1 | 31T35108 | Mag Pickup |
| 5 | 1 | 34MA1415 | Wiring Harness |

SOLENOID -CS25

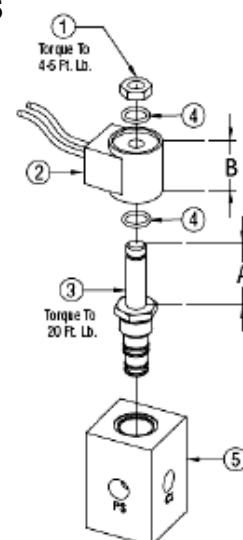
12V Solenoid Assembly - 35T36092

24V Solenoid Assembly - 35T36447A

| ITEM | QTY | PART NO | DESCRIPTION |
|------|-----|-----------|---------------|
| 1 | 1 | 22T39429 | Nut |
| 2 | 1 | 37T39088A | 12V Coil |
| | | 37T38997A | 24V Coil |
| 3* | 1 | 35T39577 | Stem |
| 4 | 2 | 12T39408 | O-ring |
| 5 | 1 | N/A | Manifold Back |

Dim A = 1.84" Dim B = 1.77"

*Item 3 is NOT sold separately



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :

AIRMOBIL : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

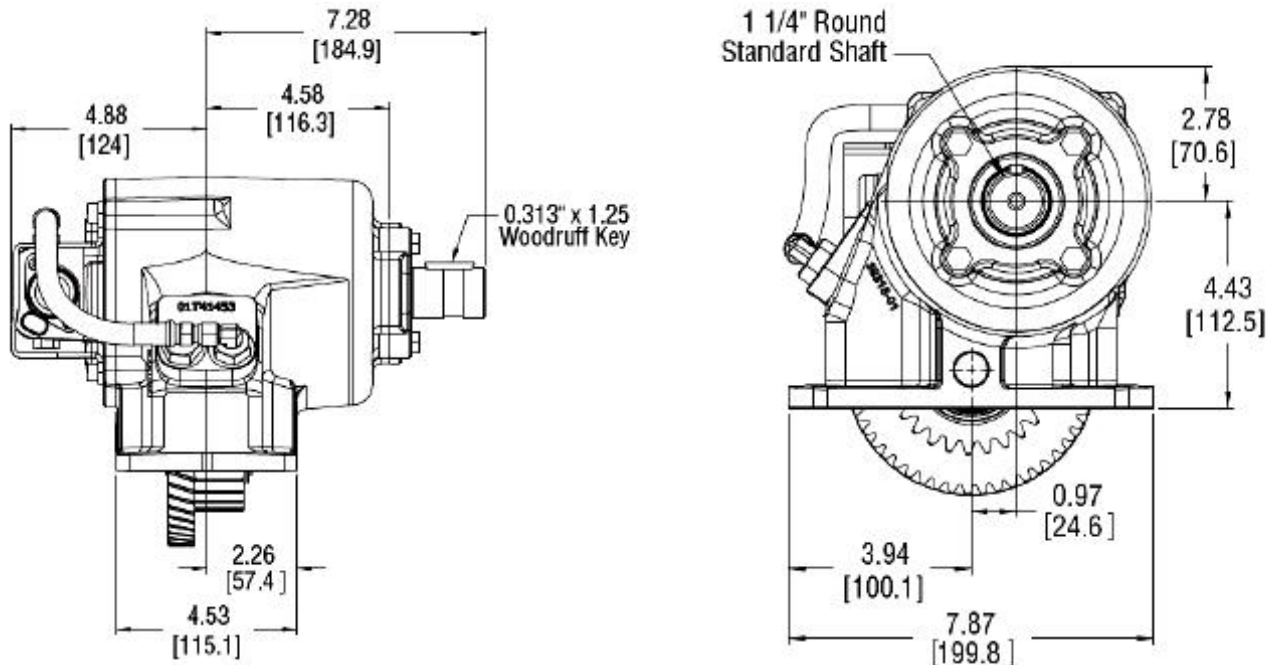
T+ R-aM5

MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

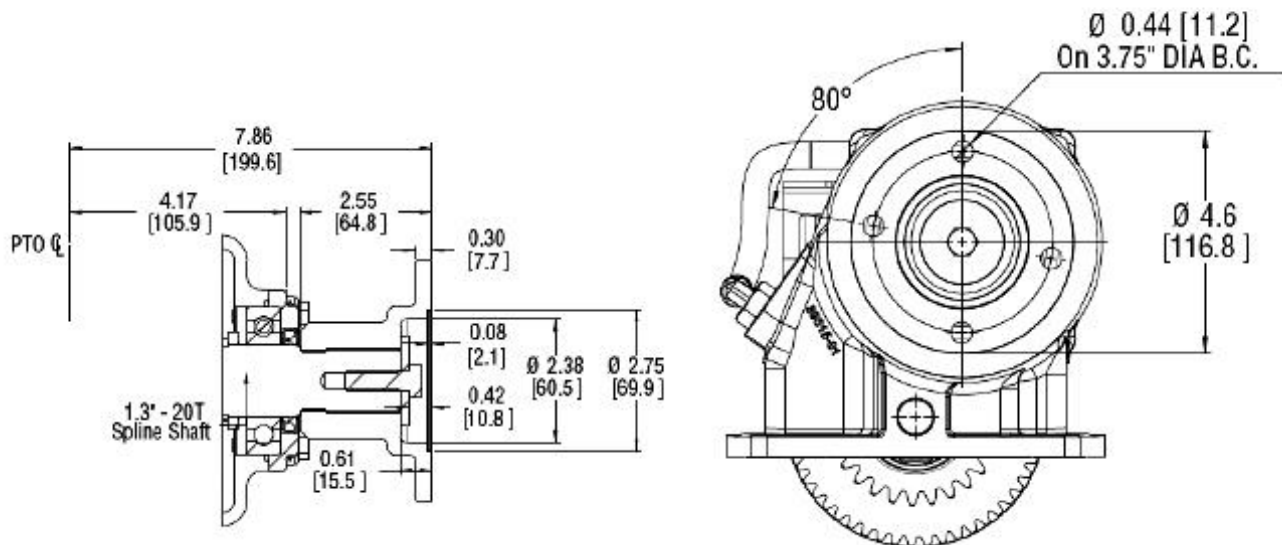
Rev 1, 170615

DIMENSIONS IN INCHES (mm)

“B” OUTPUT OPTION – 1 1/4” ROUND KEYED SHAFT



“C” OUTPUT OPTION – 1.3” - 20T W/1410 SERIES FLANGE



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

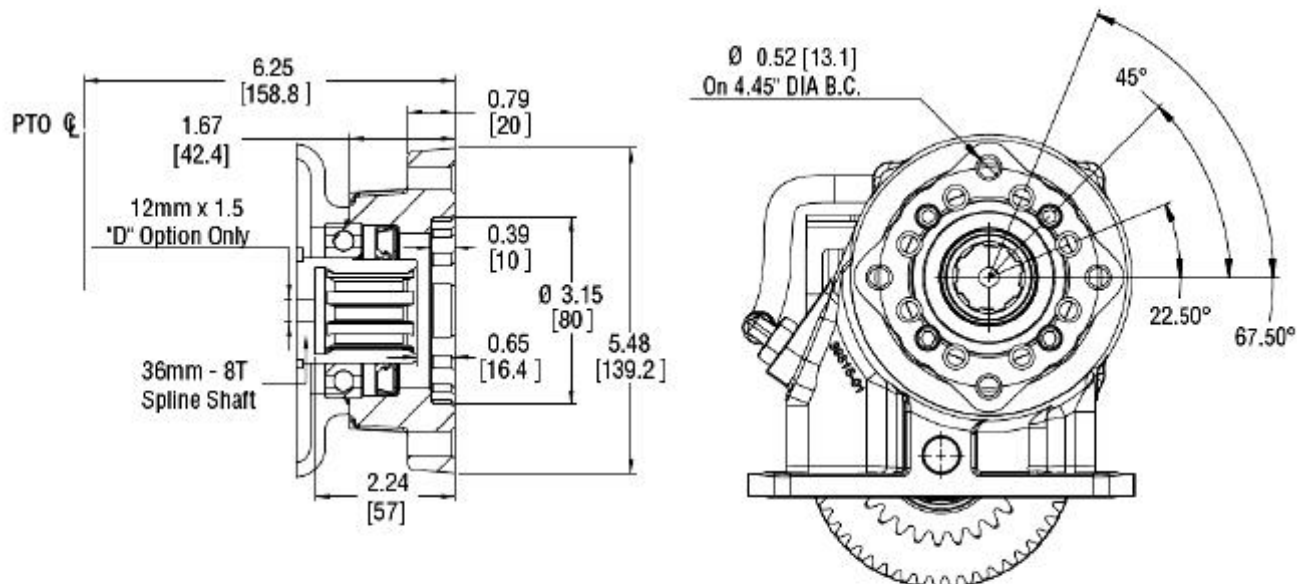
BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :
AIRMobil : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

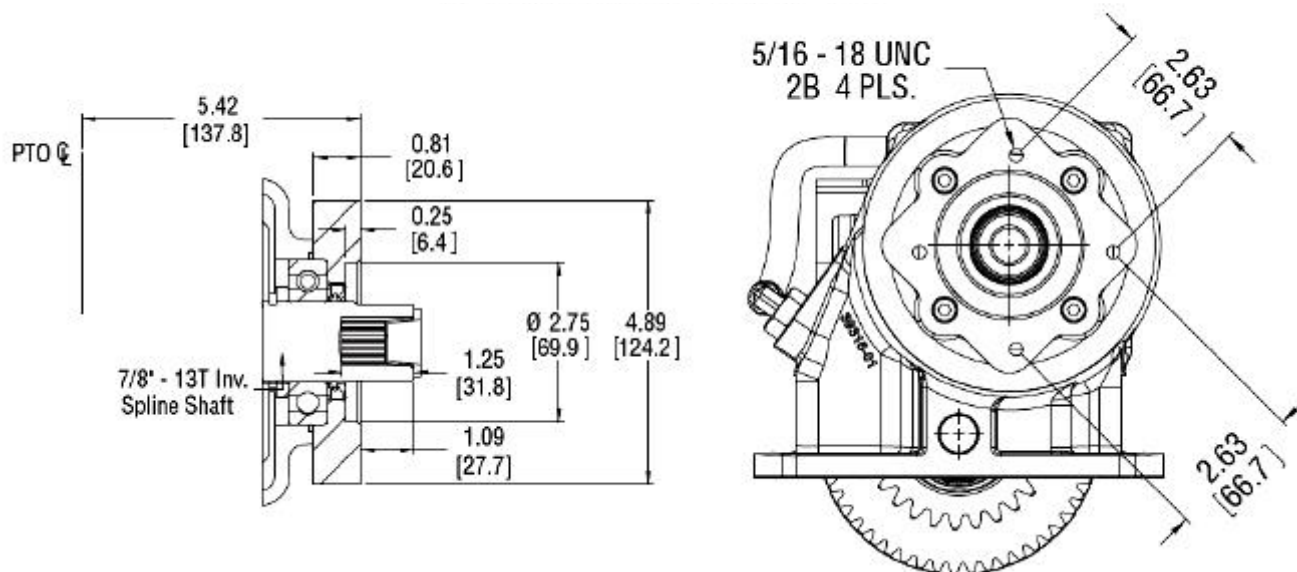
MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

DIMENSIONS IN INCHES (mm)

“D” / “I” OUTPUT OPTION – DIN 5462 W/36MM – 18T



“G” OPTION – SPECIAL W/ 7/8” - 13T



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :
AIRMobil : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

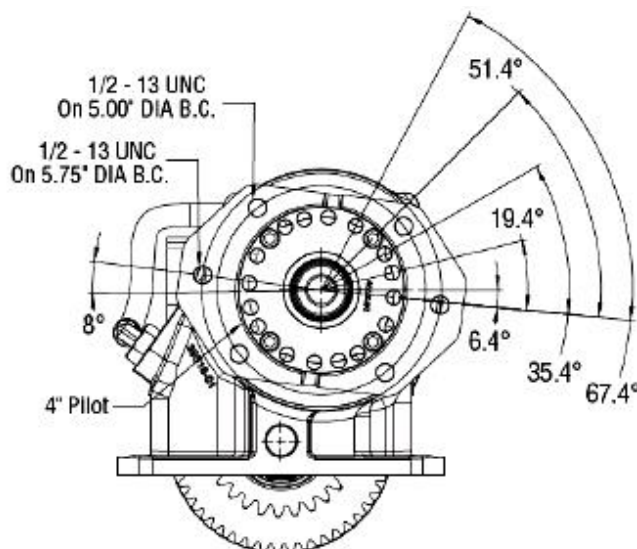
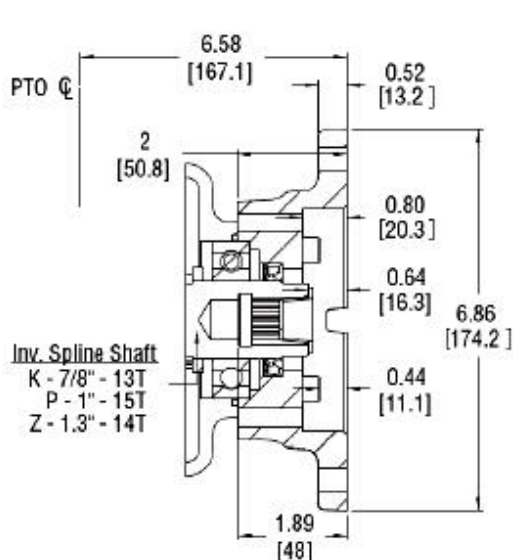
MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

DIMENSIONS IN INCHES (mm)

"K" OPTION – SAE "B" 2, & 4 BOLT 1/ 7/8" - 13T

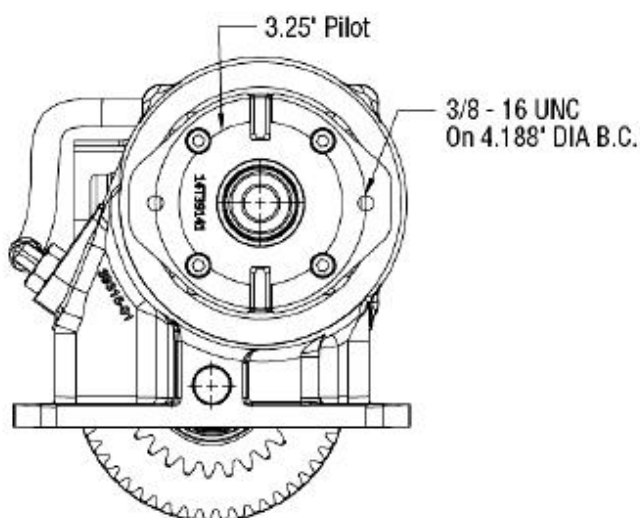
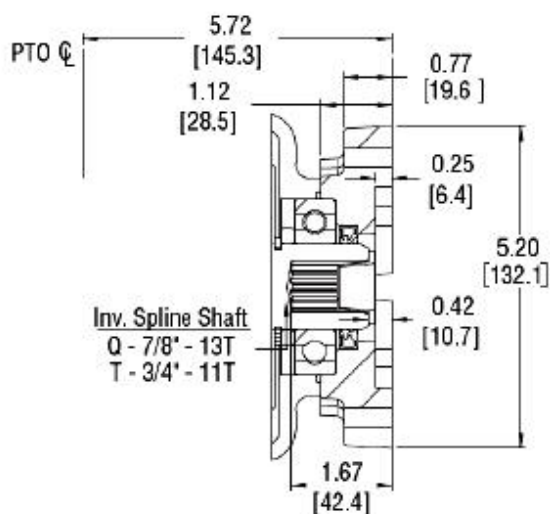
"P" OPTION – SAE "B-B" 2 & 4 BOLT 1/ 1" - 15T

"Z" OPTION – SAE "B" 2 & 4 BOLT W/ 1.3" - 14T



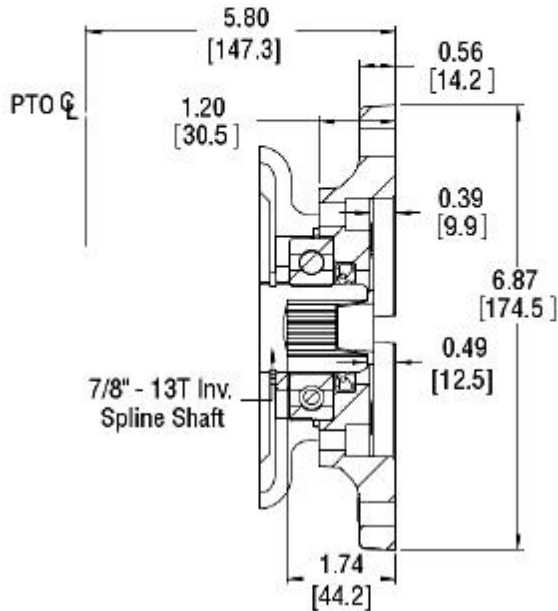
"Q" OUTPUT OPTION – SAE "A" 2-BOLT W/ 7/8" - 13T

"T" OUTPUT OPTION – SAE "A" 2-BOLT W/ 3/4" - 11T

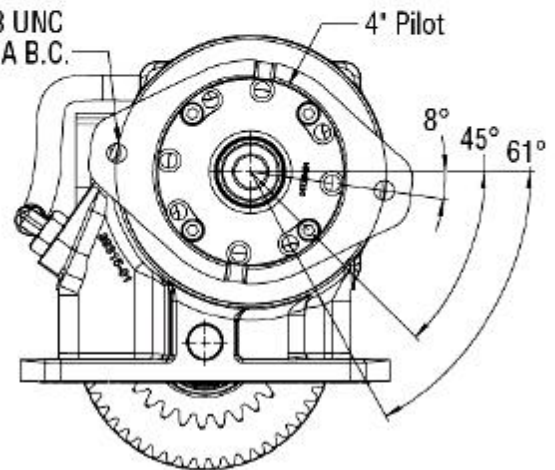


DIMENSIONS IN INCHES (mm)

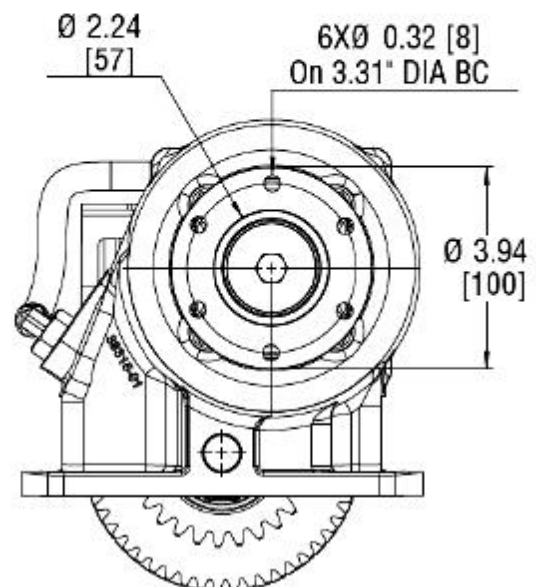
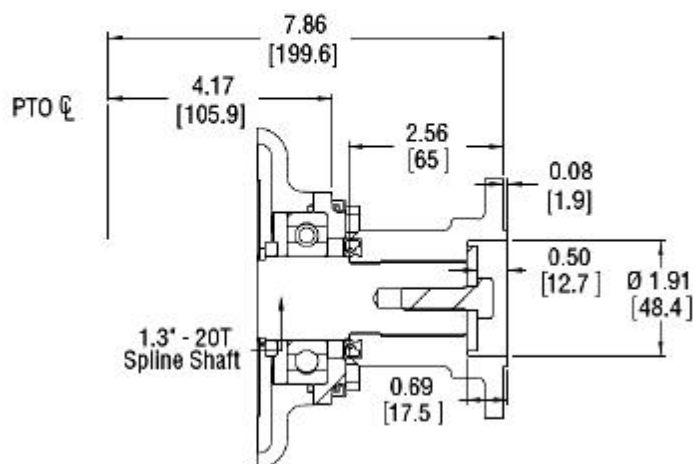
“S” OUTPUT OPTION – SAE “B” 2-BOLT W/ 7/8” -13T



1/2 - 13 UNC
On 5.75" DIA B.C.



“2” OUTPUT OPTION – 1.3”- 20T W/ DIN COMPANION FLANGE



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

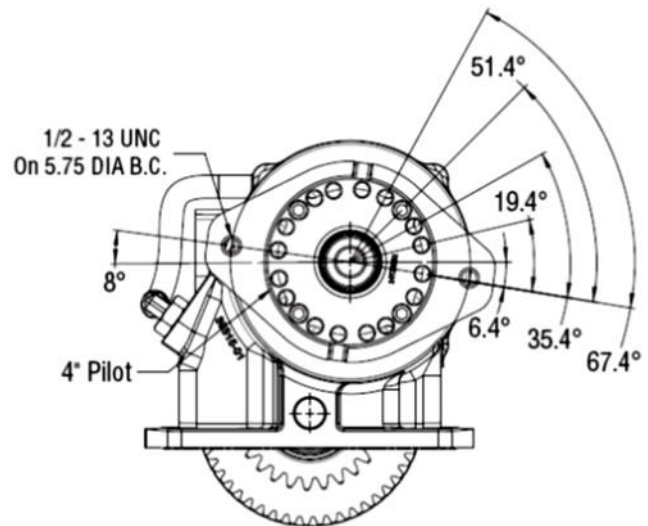
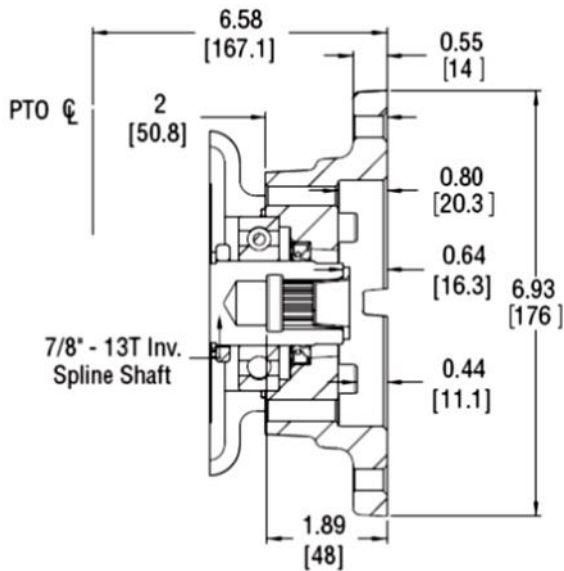
BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :
AIRMobil : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

DIMENSIONS IN INCHES (mm)

"6" OUTPUT OPTION – SAE "B" 2-BOLT W/ 7/8" -13T



MASTER DISTRIBUTOR OF WORLD QUALITY BRANDS

BINOTTO : PZB : MUNCIE : LEDUC : OMSI : DI NATALE BERTELLI : TIPX :
AIRMobil : VIME : EU COMP : AMI : SISTEMATICA

MEGA PACIFIC PTY LTD 7 Jersey Avenue, Sandgate, NSW, 2304, AUSTRALIA Ph: +61 2 4960 1888 W: www.megapacific.com.au

T+ R—aM5

MEGA PACIFIC IS CONSTANTLY ENGAGED IN IMPROVING ITS PRODUCTS AND THEREFORE RESERVES
THE RIGHT TO MODIFY WITHOUT ANY NOTICE CHARACTERISTICS SHOWN

Rev 1, 170615